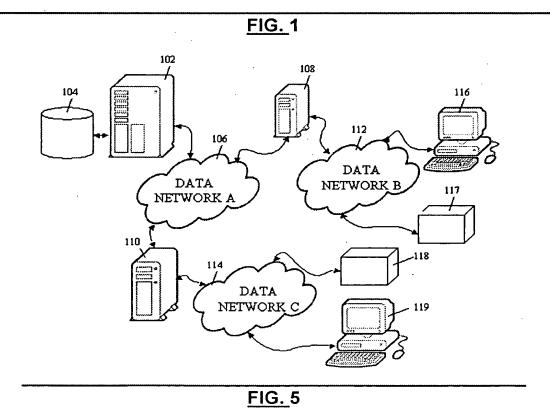
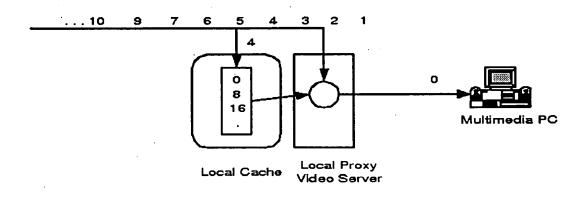


Figure 1: Video Delivery Architecture over Wide Area Network

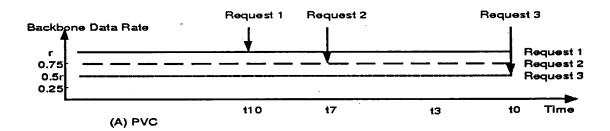


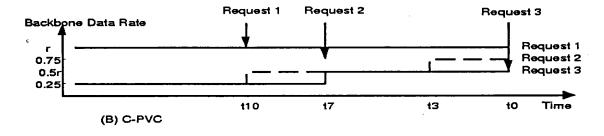
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**FIG.** 2





<u>FIG.</u> 4

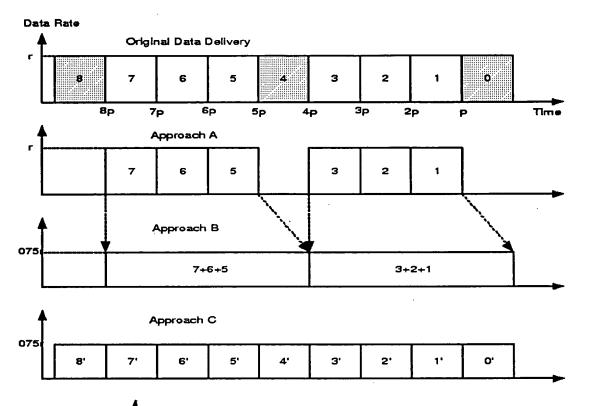
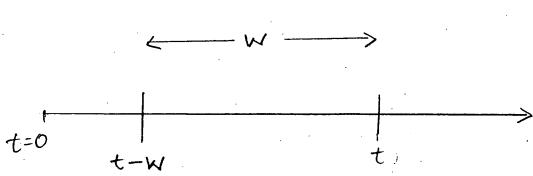


Figure 3: Three Possible Caching Approaches with N=4

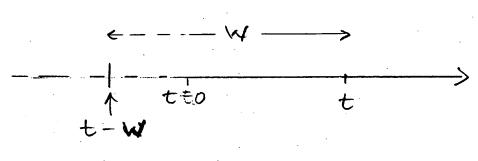
4/10

		132a							
		$v_i^1$	/	$v_i^2$	[	$\left(\begin{array}{c} v_i \\ \end{array}\right)$	· · · · · · ·	$v_i^{10}$	$v_J^{100}$
		$v_i^{b_1^1}$	-11	$v_i^{b_2^1}$	112	$v_i^{b_j^1}$	rilj	$v_i^{b_{10}^1}$	L (110
		v <sub>i</sub> <sup>b2</sup>	724	V <sub>1</sub> <sup>62</sup>	5è72	$v_i^{b_j^2}$	-12j	$v_i^{b_{10}^2}$	-2210
		$v_i^{b_1^3}$	-131	$v_i^{b_2^3}$	-132	$v_i^{b_j^3}$	i3j	$v_i^{b_{10}^3}$	1310
		$v_i^{b_1^4}$	-:41	$v_i^{b_2^4}$	-142	$v_i^{b_j^4}$	- 145	$v_{i}^{b_{10}^{4}}$	-1410
		$v_i^{b_1^5}$	-i51	$v_i^{b_2^5}$	-i <b>52</b>	$v_i^{b_j^5}$	-i5j	$v_i^{b_{10}^5}$	4510
		$v_i^{b_1^6}$	- (6)	$v_i^{b_2^6}$	-i62	$v_i^{b_j^6}$	-16j	$v_i^{b_{10}^6}$	~i610
		$v_i^{b_1^7}$	-(7)	$v_i^{b_2^7}$	: 172	$v_i^{b_j^7}$	·175	$v_{i}^{b_{10}^{7}}$	-1710
		$v_i^{b_1^8}$	ri81	$v_i^{b_2^8}$	_(82	$v_i^{b_j^8}$	ાં 8 ં	$v_i^{b_{10}^8}$	-1810
		$v_i^{b_1^9}$	-191	$v_i^{b_2^9}$	-192	$v_i^{b_j^9}$	- i9j	$v_i^{b_{10}^9}$	1910
		$v_i^{b_1^{10}}$	-1101	$v_i^{b_2^{10}}$	-1102	$v_i^{b_j^{10}}$	:i10j	$v_i^{b_{10}^{10}}$	Li 1010

FIG SP

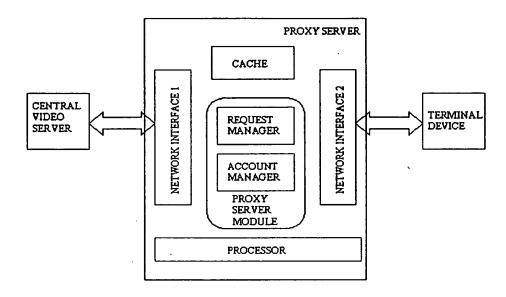


F16.3C



F14.3D

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**FIG.** 6

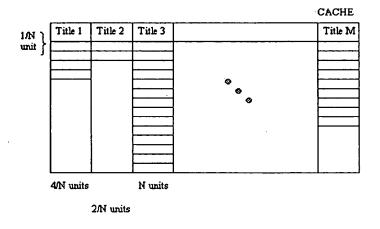
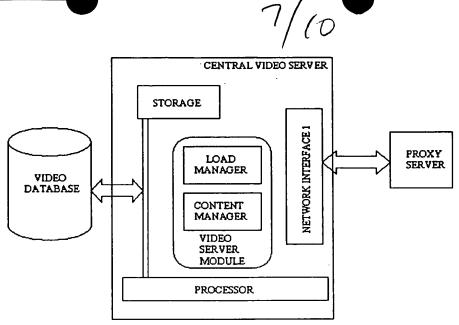
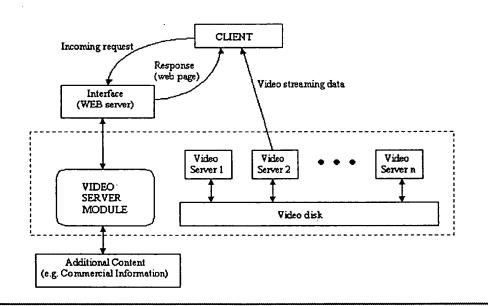


FIG. 7



**FIG.** 8



**FIG.** 9

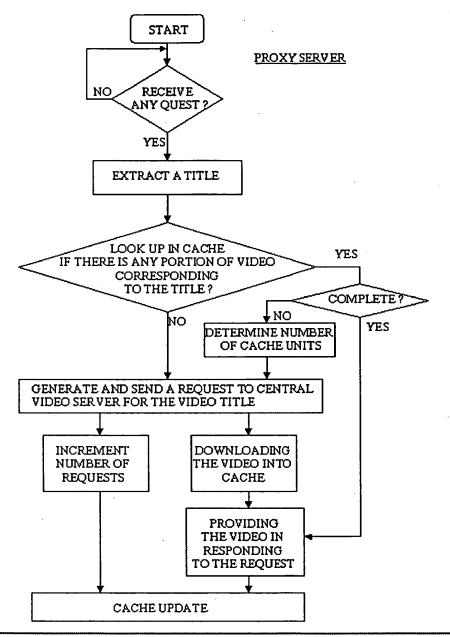


FIG. 10

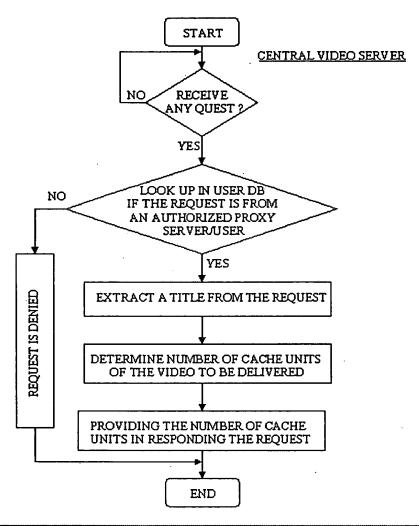


FIG. 11

